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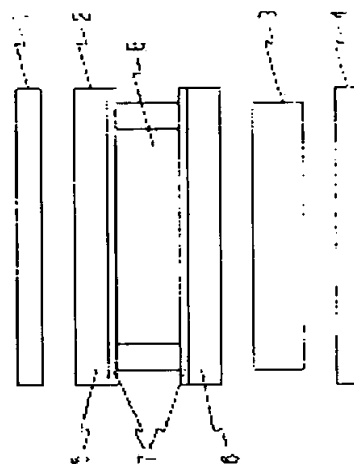
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(54) PHASE DIFFERENCE PLATE AND LIQUID CRYSTAL ELECTROOPTICAL ELEMENT USING THIS PLATE

(57)Abstract:

PURPOSE: To obtain the phase difference plate which allows perfect optical compensation and the liquid crystal electrooptical element which is formed by utilizing this plate and decreases the coloration of display by forming the plate in such a manner that the dependency, upon wavelength, of the double refractive indices of the film formed by stretching two kinds of org. high polymers alone varies from each other.

CONSTITUTION: The phase difference plate 3 formed by uniaxially stretching the film of the mixture composed of ≥ 2 kinds of the org. high polymers or the copolymer thereof is so formed that these org. high polymers are the combination of the high polymer independently having a positive optical elastic constant and the high polymer having a negative optical elastic constant and the dependency, on wavelength, of the double refractive indices Δn of the film stretched alone varies from each other. The electrooptical element formed by using this phase difference plate 3 consists of the phase difference plate 3, a liquid crystal cell 2, and two sheets of polarizing plates 1, 4 disposed on both sides thereof. The perfect optical compensation is enabled in this way and the coloration of the display is lessened.



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